Electronic Systems Center

Integrity - Service - Excellence

AF DCGS Program Status

U.S. AIR FORCE

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ESC/SR
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Overview

- Program Accomplishments
- Block 10.2 Status
- Future upgrades
- Summary

Program Accomplishments

- AF DCGS System (CONUS/OCONUS) Baselined – May 04
- Significant UCNs fielded to support 24/7 operations
- Declared an Network Compliant Enterprise System – Block 10.2
  - DCGS Integration Backbone
- Multi-Service Executive Team (MET) Stood-up
  - Coordinate DIB and DCGS acquisition issues
  - Key program management interface with services, NGA and NSA
- Block 10.2
  - Successful Final Design Review
  - Successful initial Program Management Review
  - Contractor Integration Facility stood up
    - DGS-X hardware installation and software development/ integration has begun
- Block 20 Planning underway
  - Joint AFC2ISRC/AIA/ACC/ESC effort

Block 10.2 Contract Overview

Contract Awarded on 03 Oct 03

- Prime Contractor: Raytheon, Garland, TX
- Contract ceiling: $0.5B
- Period of Performance thru 2009
- Flexible structure to accommodate changes to AF quantities and delivery dates; USMC & USA Buys

Deliveries

- DGS-X Integration Facility at Langley AFB
- Installations include:
  - 2 Worldwide, 3 Regional, 5 Falconer, 4 ANG, 2 Training, 7 Specialized Support and 6 Data Relay/DPC
- Provides Initial Spares, ICS, Training, O&M Manuals,

Raytheon

LOCKHEED MARTIN

BAE SYSTEMS

bea

TRANSFORMATION TEAM

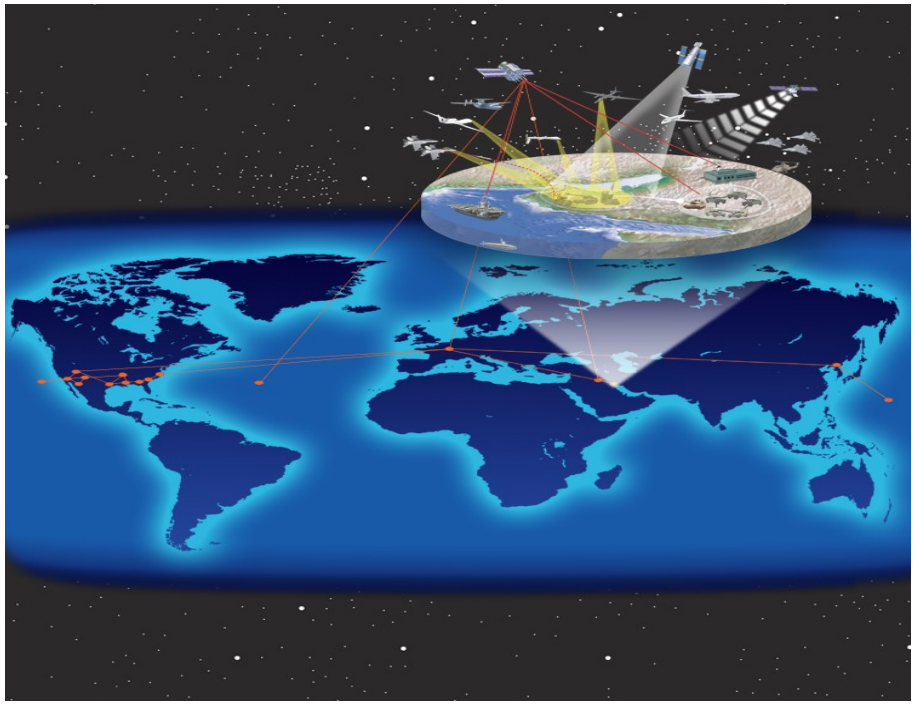
DCGS

ORINCON

GOODRICH

L3 communications

GENERAL DYNAMICS



Block 10.2
Define the Backbone

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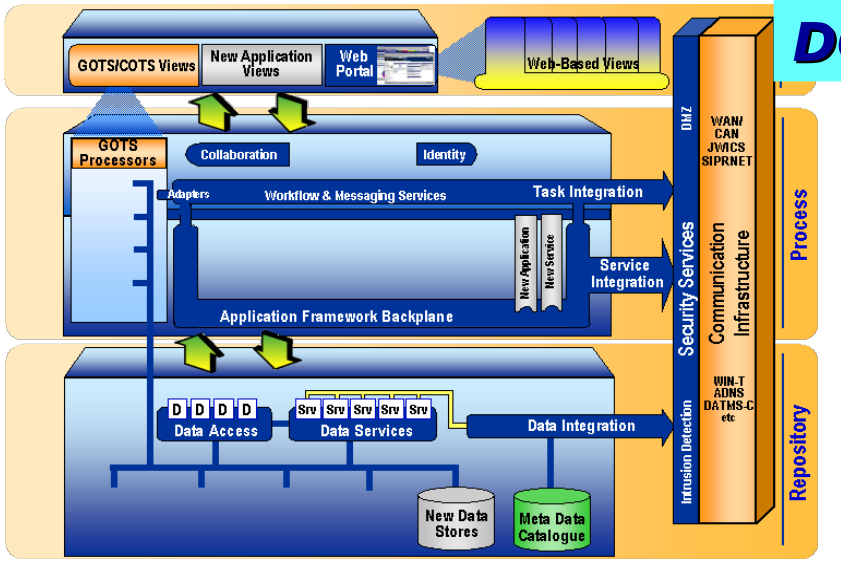
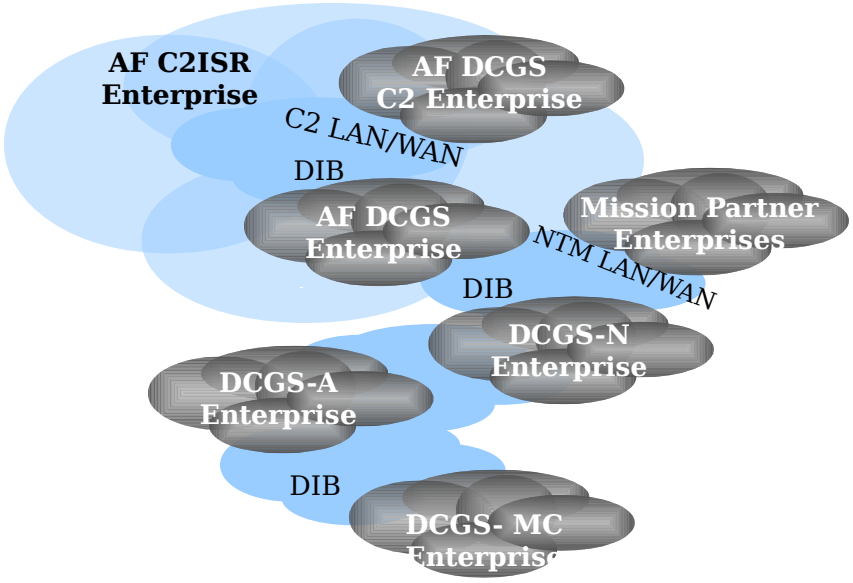


DCGS Integration Backbone (DIB)

- Promotes C2 and ISR interoperability
- Provides ground-rules for accessing the system
  - Required standards
  - Interface mechanisms
  - Information definitions
- Provides enterprise system services
- Enables Users to pull information
  - What information is available
  - Where is the information
  - Where it needs to go
  - What processing services are available



Multi-Service DIB built using Commercial *J2EE* *Standards* ensuring Joint Interoperability

Block 10.2 Service Based Architecture (SBA)

DIB Components (J2EE Compliant) + Multi-INT Components & Apps

- Web and Portal Services
- Enterprise System Services (Metadata Catalog, Publish/ Subscribe, Web Alerts)
- External Tasking (Collection Mgmt & Tasking)
- Workflow Management
- Integration Support Services
- Security Services with Multiple Security Levels (Unclass-SCI)
- Collaboration Services
- COTS SW Licenses

- Multi-INT Visualization
- Softcopy Target Folders
- Distributed ISR Sensor Planning
- Distributed Imagery Screening
- Multi-INT Processing (IMINT, SIGINT, MASINT)
- Moving Target Indicator (MTI) Exploitation
- ISR Fusion
- Integrated Precision Targeting
- Integrated Joint Fires and Strike Coordination

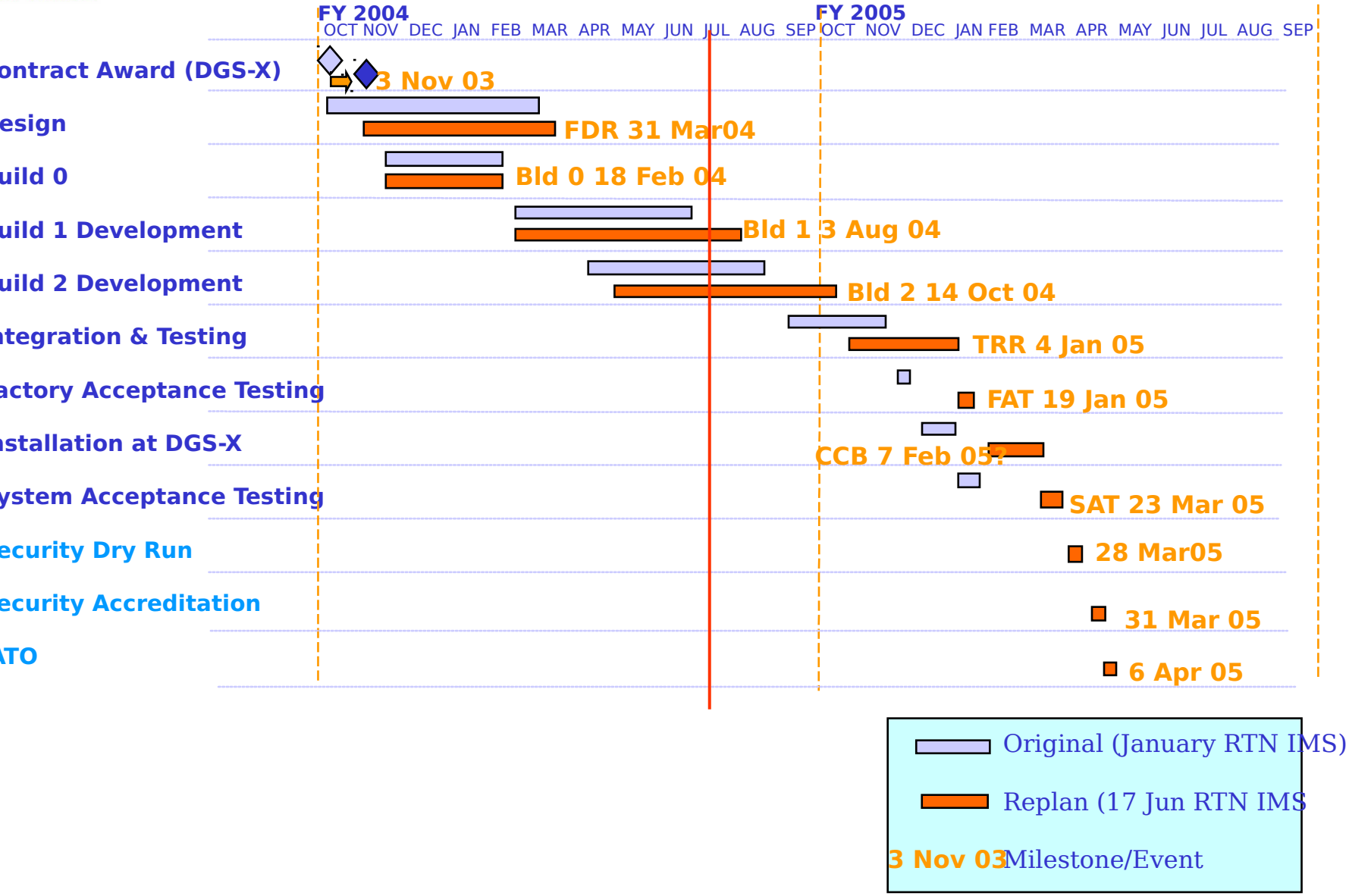
Overall Assessment

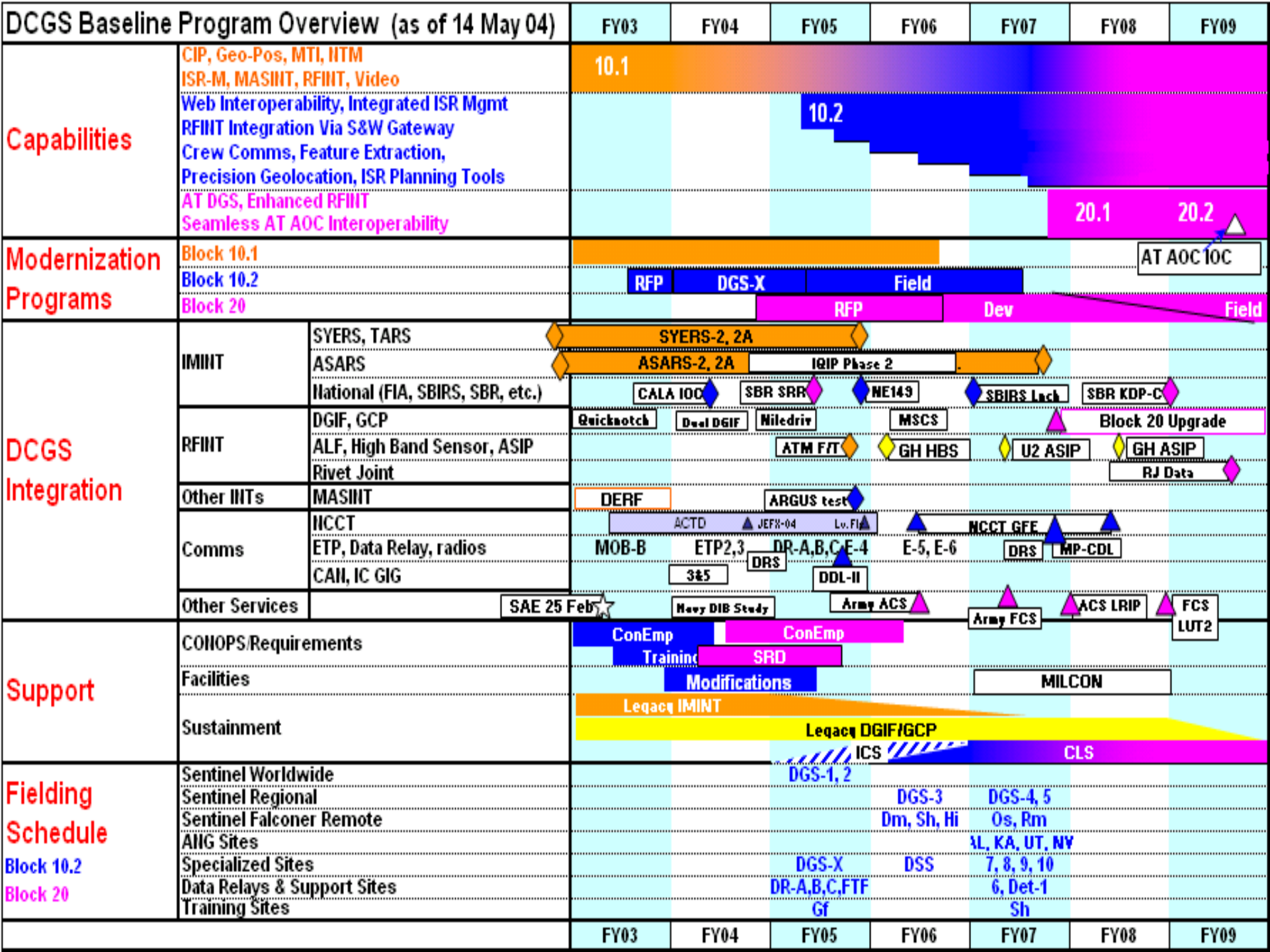
- Significant progress made since CA in Oct 03
  - Key reviews successfully conducted
  - Key documentation delivered – Block 10.2 Architecture Package
  - Build 0 completed/demonstrated; Builds 1 and 2 in progress
    - Build 1 scheduled for completion Aug 04
  - MET/METWG process established
  - USN, USA, and USMC reps in place at ESC/SR
  - Successfully defended protest
  - AFOTEC approved test approach
    - Will participate in Block 10.2 testing
- Program replan in progress

Block 10.2 Replan – Major causes

- Delays caused by Resource limitations and protest
  - Limited SPO personnel
  - Working protest and major system development
- Raytheon program execution delayed 30 days
  - Requirement for Urgent and Compelling Need determination
  - Original delivery dates maintained
- Reconciled schedule conflicts
  - Christmas holidays
  - Expanded regression testing

Block 10.2 Schedule




DCGS Baseline Program Overview (as of 14 May 04)
FY03
FY04
FY05
FY06
FY07
FY08
FY09
Capabilities
CIP, Geo-Pos, MTI, IITM
ISR-M, MASINT, RFINT, Video
10.1
Web Interoperability, Integrated ISR Mgmt
RFINT Integration Via S&W Gateway
Crew Comms, Feature Extraction,
Precision Geolocation, ISR Planning Tools
10.2
AT DGS, Enhanced RFINT
Seamless AT AOC Interoperability
20.1
20.2
Modernization Programs
Block 10.1
Block 10.2
Block 20
AT AOC IOC
RFP
DGS-X
Field
RFP
Dev
Field
DCGS Integration
IMINT
SYERS, TARS
SYERS-2, 2A
ASARS
ASARS-2, 2A
IQIP Phase 2
National (FIA, SBIRS, SBR, etc.)
CALA IOC
SBR SRR
NE149
SBIRS Lack
SBR KDP-C
RFINT
DGIF, GCP
Quicksotch
Dual DGIF
Niledriv
MSCS
Block 20 Upgrade
ALF, High Band Sensor, ASIP
ATM F/T
GH HBS
U2 ASIP
GH ASIP
Rivet Joint
RJ Data
Other IITs
MASINT
DERF
ARGUS test
Comms
NCCT
ACTD
JEFX-04
Lv.FIA
NCCT GFE
ETP, Data Relay, radios
MOB-B
ETP2,3
DR-A,B,C,E-4
E-5, E-6
DRS
MP-CDL
CAIL, IC GIG
DRS
3&5
DDL-II
Other Services
SAE 25 Feb
Navy DIB Study
Army ACS
Army FCS
ACS LRIP
FCS
LUT2
Support
CONOPS/Requirements
ConEmp
ConEmp
Training
SRD
Facilities
Modifications
MILCON
Sustainment
Legacy IMINT
Legacy DGIF/GCP
ICS
CLS
Fielding Schedule
Block 10.2
Block 20
Sentinel Worldwide
DGS-1, 2
Sentinel Regional
DGS-3
DGS-4, 5
Sentinel Falconer Remote
Dm, Sh, Hi
Os, Rm
ANG Sites
AL, KA, UT, NV
Specialized Sites
DGS-X
DSS
7, 8, 9, 10
Data Relays & Support Sites
DR-A,B,C,FTF
6, Det-1
Training Sites
Gf
Sh
FY03
FY04
FY05
FY06
FY07
FY08
FY09

Future Upgrades
Block 20 Planning

- Joint ESC/AFC2ISRC effort
- Plan for FY 08 execution FY 07 program start-up
- DOORS database established to document and track requirements
  - Full system, bottoms-up definition
- Acquisition strategy approach in late FY 05
- Upgrade fielded using DGS-X

Summary

- Continue to field UCN capabilities
  - Current system modifications being fielded for sensor changes and system obsolescence
- Block 10.2 in development
  - Replan activities to conclude this week
- Planning for Block 20